CDF Expectations – Storage Services

- Require basic SAMGrid/storage functionality plus: Quota-enabled permanent disk storage mechanism: flag to SAMGrid/Storage services/Privilege project to address that requirement in next week's meeting.

- Concatenation requirement: need tools for this

- Quota-enabled tape storage of user-generated analysis files.

- VO policy implementations across remote centers – where remote centers may use local storage or remote storage in conjunction with local cpu

CMS Expectations – Storage Services

- 10 million events/ month fully simulated & reconstructed & provided for analysis (compare D0 1 million/month steady state, CDF 92 million events in one month.) - this milestone is due now

- Be capable of running analysis job on Grid: Nov 04 (I did not get specific scope of this milestone).

- Want to see joint projects on storage services in context of OSG, common storage elements based around SRM. Permanent storage, transient storage, making a lightweight storage element available in a deployable manner.

- Blueprint – architecture effort beginning in PPDG – need to understand where CD effort will fit in this.

- Interoperability effort important – grids & storage services.

DØ Expectations - SAMGrid

- 1. Grid security and VO management
- 1. Experiment is very interested in monitoring to estimate production capacity
- 2. Job submission and monitoring (JIM) in production for MC at most MC
- sites, milestone for this week—(not quite met—see next slide)
- 3. use of JIM on the FNAL farm for MC production by August 1
- 4. use of JIM for data reconstruction by Sept 15th at all sites
- 5. Second generation SAM monitoring needed ASAP.
- 6. Need to understand issues/program of work for running on LCG
- resources
- 7. Need migration facility for tapes (longer timescale)
- 8. Need SRM interface to station (CDF drives timescale)
- 9. JIM on FNAL analysis platform (March 2005)
- 1. Solves several current limitations, not having it would lead to duplicate
- solutions
- 10. Continuation of program to reduce operational load (improved
- installation scripts, new test harness)
- 11. Full Linux operation by March 2005 (pick_events, operational issues)

DØ Expectations – Storage Services

- **1. Need an SRM interface to enstore, dCache and**
- **HPSS(SAM requirement)**
- **2. Need migration facility for tapes (longer**
- **timescale)**
- **3. Would like to use dCache for staging data to and**
- **from remote sites by Jan 2005**
- **4. Would like to use dCache for online by end of**
- **shutdown (pending completion of upgrade of**
- **online machines)**
- **5. Need resolution of dCache installation and**
- **operational issues**
- **6. second generation monitoring needed for**
- **enstore and dCache ASAP(design**
- **and requirements discussion needed)**